

Permit Number: PP3238LX

Operator: Bakelite Synthetics UK Limited

Facility: Barry Thermosets Plant

Form Number: Water1 / 13/02/2023

Reporting of emissions to water (other than to sewer) and land for the period from 27/12/2024 to 27/03/2025

Emission Point	Substance / Parameter	Emission		Reference Period	Result ^[1]	Average result ^[6]	Test Method ^[2]	Uncertainty ^[4]
		Limit Value						
W1	Maximum volume of effluent discharged under dry conditions determined by no significant rainfall over the previous 48 hours on the Barry site.	6800 m ³ /day	Instantaneous		3960	959		01/01/2025 to 31/03/2025
	Maximum volume of effluent discharged	15,900 m ³ /day	Instantaneous		3960	959		01/01/2025 to 31/03/2025
	Flow	0.19 m ³ /s	Instantaneous		0.046	0.011		01/01/2025 to 31/03/2025
	Monohydric phenol	10 mg/l	24-hour flow proportional sample		11.2	3.39	BS6068-2.12 1990 ISO6439:1990*	2/1/2025 9/1/2025 16/1/2025 23/1/2025 30/1/2025 6/2/2025 13/2/2025 20/2/2025 27/2/2025 6/3/2025 13/3/2025 20/3/2025 27/3/2025

Emission Point	Substance / Parameter	Emission		Result ^[1]	Average result ^[6]	Test Method ^[2]	Uncertainty ^[4]	
		Limit Value	Reference Period					
	Total suspended solids	150 mg/l	24-hour flow proportional sample	19.6	10.2	BS EN 872 2005 /BS6068- 2.54 2005	As above *worse case sample on this date for Q1 for average as no result due to test issues	3.19
	Chemical oxygen demand	1000 mg/l	24-hour flow proportional sample	472	138	BS ISO 15705-2002/BS6068-2.80 2002	As above	65.0
	Methanol	50 mg/l	24-hour flow proportional sample	0	0	BS EN ISO 15680 2003	As above	0
	Free formaldehyde	10 mg/l	24-hour flow proportional sample	7.30	1.48	BS 2942 App D	As above	1.24
	Styrene ^[5]	No limit set	24-hour flow proportional sample	n/a	n/a			n/a
	pH	Minimum 6, maximum 9	Instantaneous	7.70	7.42	BS6068-2.50	As above	0.13
	Monohydric phenol	10950 kg/year	Annual mass release	n/a	n/a			
	Methanol	43800 kg/year	Annual mass release	n/a	n/a			
	Free formaldehyde	10950 kg/year	Annual mass release	n/a	n/a			
E1	Total suspended solids	No limit set	24-hour flow proportional sample	81.6	31.1	BS EN 872 2005 /BS6068- 2.54 2005	As above *worse case sample on this date for Q1 for average as no result due to test issues	15.7
	Free formaldehyde	No limit set	24-hour flow proportional sample	1.76	0.344	BS 2942 App D	As above	0.310
	Monohydric phenol	No limit set	24-hour flow proportional sample	87.2	18.6	BS6068-2.12 1990 ISO6439:1990*	As above	13.9
	Methanol	No limit set	24-hour flow proportional sample	0	0	BS EN ISO 15680 2003	As above	0
	Chemical oxygen demand	No limit set	24-hour flow proportional sample	706	249	BS ISO 15705-2002/BS6068-2.80 2002	As above	119

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.
- [5] Monitoring of styrene required when styrene is in use at the installation
- [6] An average of the samples taken over the reporting period (every 3 months)

Signed
(Authorised to sign as representative of Operator)

Date.....28th April 2025.....